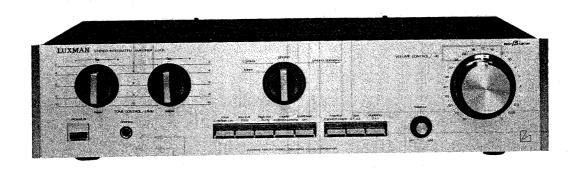


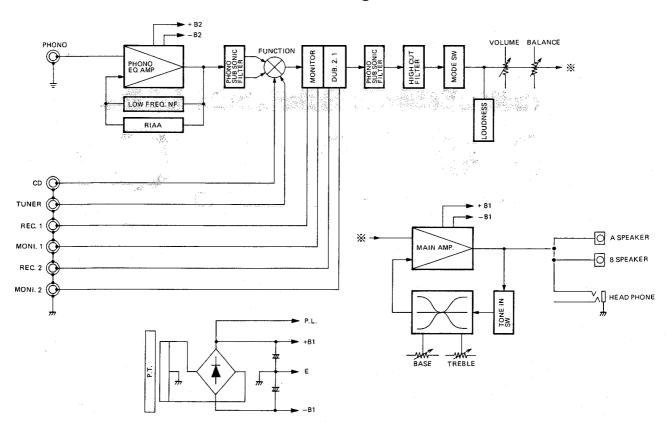
DUO-BETA CIRCUIT STEREO L-205 INTEGRATED AMPLIFIER



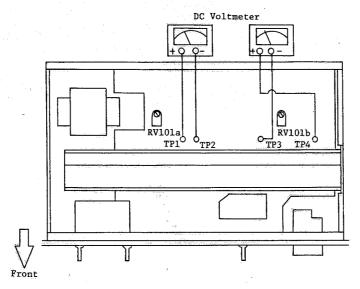
Contents

	Block Diagram
	Adjustment Procedures
	Packing Material Parts List
	Exploded View
	Exploded View Parts List
2 - F	Pre Main Amp PCB6
	Tone Control PCB
ga pagan salah nga	Function SW PCB
	VR Control PCB
	AV Input Terminal PCB
A No.	Destination's Parts List
	Pre Main Amp PCB Parts List
N - Stream	*Tone Control PCB Parts List9
	Function SW PCB Parts List
The state of the s	VR Control PCB Parts List
And the state of t	AV Input Terminal PCB Parts bist
	AV Input Terminal PCB Parts List
The state of the s	Schematic Diagram
Mark T	Schematic Diagram
Comment of the Commen	7

Block Diagram



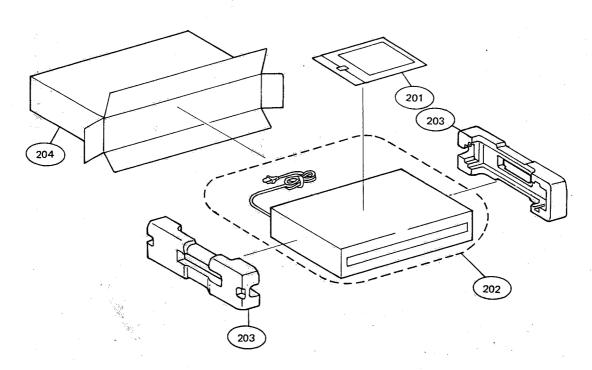
Adjustment Procedures



Bias (Idle) Current Adjustment

- 1. Connect a DC Voltmeter in between TP1 and TP2 on L-ch and or TP4 and TP3 on R-ch, Making TP1 and TP4 positive respectively.
- 2. Adjust the RV101a and RV101b to obtain $15\text{mV} \pm 5\text{mV}$ reading on the meter.

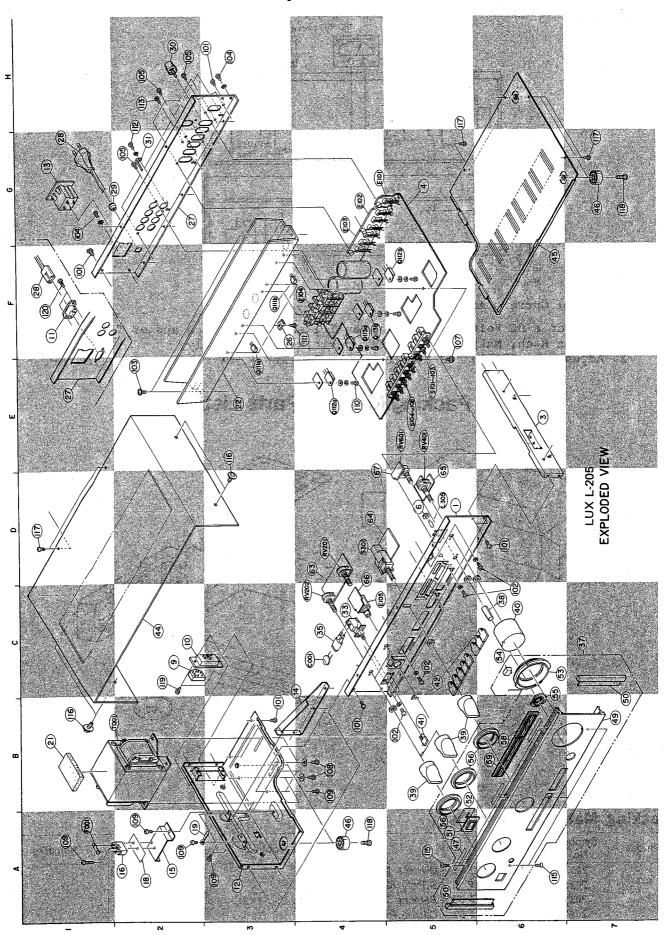
Packing Material Parts List



Packing Material Parts List

Index	Symbol No.	Stock No.	Description	Remarks
	201	68P65432F35	Owner's Manual	
	202	56B63425F11	S,Poly 620x480	
	203	56C56637F01	Packing Tray	•
	204	56S60482F36	Carton, Packing	

Exploded View



Exploded View Parts List

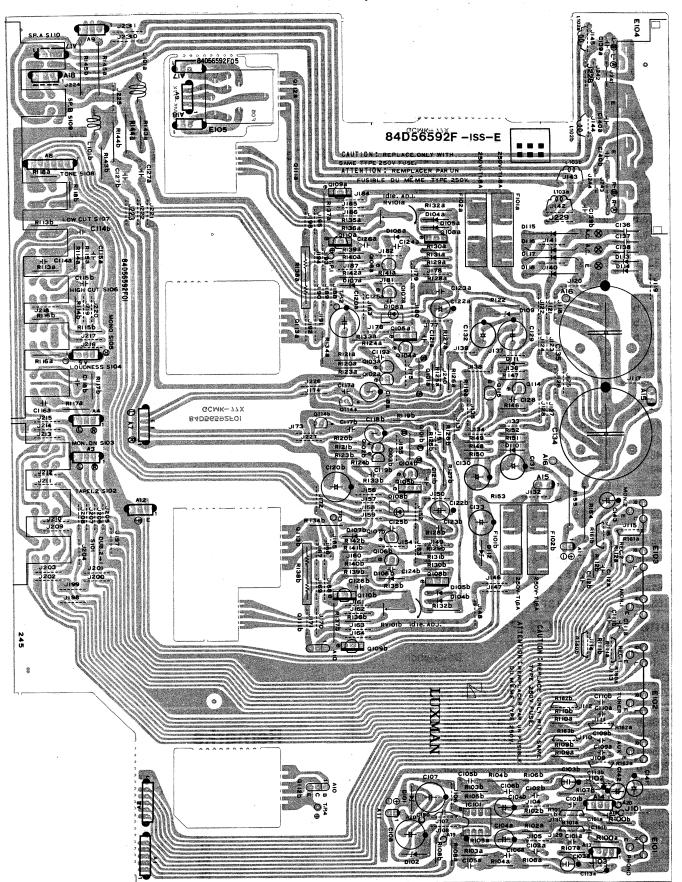
Note: *The parts whose parts numbers are not entered will not be supplied.

Index	Symbol No.	Stock No.	Description	Remarks
D5	1	*	Chassis Front	
E 6	3	*	Bracket, R	
35	4	*	Ass'y Pre M/A PCB	
D5	6	43A62016F02	Bushing , UZ1077—2	
D2	9	09T51830F01	Plug, Switch P-2120	AK,AG
C2	10	09T51831F01	Socket, Switch M-1615	AK,AG
	11	09T67078F01	Inlet, 2P	AK,AG
F1			Bracket, Trans	AR,AG
A3	12	*		UP
G1	13	09T57066F01	AC, Outlet S2-724B-04	UP
C4	14	*	Bracket, Trans	
A2	15	*	Bracket, Fuse	
A2	16	09T51074F01	Fuse Holder	
		09T51828F01	Fuse Holder X – N1157	UP
A2	18	*	Spacer, Fuse	
A2	19	29C41045P01	Lug, Wrap Around	
	20	*	Cushion, Rubber	
B1	21	*	Spacer, 60x34	
E3	22	07C60750F01	Heat Sink	
F3	26	*	Support, Tr	
E1,G2	27	15D56636F19	Cover, Rear	SK,SD
£1,G2	21	15D56636F25	Cover, Rear	AK,AG
		15D56636F27		UP
				SK,SD
F1,G1	28	28T43182P02	Plug, AC Cord	,
	1	30T67077F01	Cord Set	AK
		30T67359F01	Cord Set	AG
		28T55335P02	Plug, AC Cord	UP
G2	29	43B41625J02	Support, Cord	SK,UP
H2	30	29T66964F01	Terminal, GND	1
G2	31	*	Lug, Wrap Around	•
C4	33	40T45561F02	Switch Power (SDLIP)	
C4	35	*	Bush, Cap	
C7	37	01V66800F47	Ass'y Panel Front	
C6	38	36A66510F01	Knob, Rotary VR A	
Cu	30	36A66510F02	Knob, Rotary VR A	UP
DE	20	36B66511F01	Knob, Rotary VR B	0,
B5	39	1		UP
	1	36B66511F03	Knob, Rotary VR B	UP
C6	40	36B66512F01	Knob, Rotary VR C	
		36B66512F03	Knob, Rotary VR C	UP
B5	41	36A56639F02	Knob, Push 1171	
C5	42	36A66836F02	Knob, Push	
C2	44	15C56629F02	Cover, Top	
F6	45	*	Cover, Bottom	
A4,G7	46	75A52969F01	Pad, Trann-leg	
A5	47	*	Insulator, 50x5	,
B7	49	64D66508F01	Panel, Front	
A5, B7	50	07B56624F03	Frame, Panel Side	
A5, B7	51	61A56641F01	Crystal,Indicator	
	52	43A56628F01	Spacer, Power	
B5	1	1	Frame, Knob 1140	
C6	53	07B56643F01		
C6	54	61A61746F01	Lens 1020-WG1020	
C6	55	07A56645F01	Frame, Knob 1156	
A5,B5	56	07A56648F01	Frame, Knob	
B 6	58	07B56646F01	Frame, Knob 1154	
B6	59	07C56647F01	Frame, Knob 1155	
D4	63	*	Ass'y, Tone Control PCB	
D4	64	*	Ass'y, Function SW PCB	

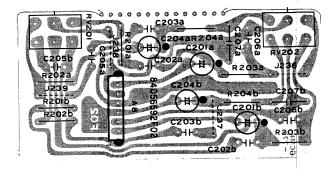
Index	Symbol No.	Stock No.	Description	Remarks
D5	65	*	Ass'y, VR Control PCB	
D4 '	6 6	*	Ass'y, HD Phone PCB	
D4	67	*	Ass'y, Balance Control PCB	
B3,B4	101	03S44205G02	Screw, T-Tite M3x6	
B5,C5	102	03C40014G04	Screw, MCH M3x6	
E2	103	03C42723U02	Screw, CUP M3x8	
G1, H3	104	03S40036U18	Screw, T-Tite M3x8 T.L.	
G2, H2	105	03S40012G41	Screw, Tapping M3x8	
E5	1.07	03S40018G02	Screw, Tapping M3x8	
B4	108	03S40036U01	Screw, T-Tite M4x8	
A1,A2	109	03S44205G02	Screw, T-Tite M3x6	
E4	110	03C40121T15	Screw, MCH M3x12	
F4	111	03S40012G28	Screw, Tapping M3x8	
H2	112	03S40036U18	Screw,T-Tite M3x8 T.L.	
A5,A6	115	03S40012G55	Screw, Tapping M3x8	
B1,E3	116	03S40036U01	Screw, T-Tite M4x8	
D1,G7	117	03S44205G02	Screw,T-Tite M3x6	
A4,G7	1 18	03S44205G25	Screw, T-Tite M4x10	
C2	119	03S44205G03	Screw,T-Tite M3x8	AK,AG
F1	120	03S40012G98	Screw, Tapping M3x8 Flat	AK,AG
D4	RV201	18T56663F01	Volume 50KCx2	
C4	RV202	18T56663F01	Volume 50KCx2	
E5 .	RV401	18T68333F01	Volume 10KBx2	
E5	RV601	18T56666F01	Volume 250KW	
G4	E101	09T57203F01	Plate, Phono 2P	
G4	E102	09T57203F02	Plate, Phono 6P	
G4	E103	09T57203F02	Plate, Phono 6P	
F4	E104	09T51101F01	Terminal, SP	
C4	E105	09T55174F01	Jack Mic	
E5	S101-103	40T56653F01	Switch, Push SUN 33	
E5	S104-110	40T56652F01	Switch, Push SUN 53	
D4	S301	40T56664F01	Switch, Rotary SRZ	
B2	T1	25T60748F01	Trans Power	SK,SD
		25T67304F01	Trans Power	AK, AG
		25T67305F01	Trans Power	UP
A1	F1	65T42077U16	Fuse Semko T-1A	1
		65T52486F09	Fuse MF61NM 3-125	UP
D5	L305	65T66752F01	Lamp, Pilot	
E3,F3	Q111a,b	48T47682F02	Transistor 2SC1845 FA	
E4,F5	Q112a,b	48T57130F03	Transistor 2SC3180 O,R	
F4	Q113a,b	48T57129F03	Transistor 2SA1263 O,R	
C4	C1	08T57437F09	Capacitor (Ac) 0.01uF	

PCB

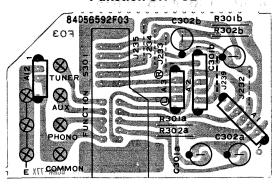
Pre Main Amp PCB



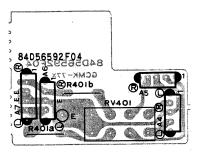
Tone Control PCB



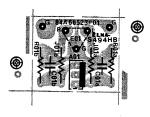
Function SW PCB



VR Control PCB



AV Input Terminal PCB



Destination's Parts List

			1 1			
Symbol No.	Description	SK	SD	AK	AG	UP
•		220V	220V	220V	240V	120V
	·	Europe	W. Germany	Europe	Australia	Canada
-				Other's	England	
9	Plug, SW P-2120	None Use	None Use	09T51830F01	09T51830F01	None Use
10	Socket, SW M-1615	None Use	None Use	09T51831F01	09T51831F01	None Use
11	Inlet, 2P	None Use	None Use	09T67078F01	09T67078F01	None Use
13	Outlet, AC	None Use	None Use	None Use	None Use	09T57066F01
16	Holder, Fuse	09T51074F01	09T51074F01	09T51074F01	09T51074F01	09T51828F01
27	Cover, Rear	15D56636F19	15D56636F19	15D56636F25	15D56636F25	15D56636F27
28	AC Cord	28T43182P02	28T43182P02	30T67077F01	30T67359F01	28T55335P02
29	Support, Cord	43B41625J02	43B41625J02	None Use	None Use	43B41625J02
38	Knob, Rotary A	36A66510F01	36A66510F01	36A66510F01	36A66510F01	36A66510F02
39	Knob, Rotary B	36B66511F01	36B66511F01	36B66511F01	36B66511F01	36B66511F03
40	Knob, Rotary C	36B66512F01	36B66512F01	36B66512F01	36B66512F01	36B66512F03
119	Screw	None Use	None Use	03S44205G03	03S44205G03	None Use
120	Screw	None Use	None Use	03S40012G98	03S40012G98	None Use
T001	Trans, Power	25T60748F01	25T60748F01	25T67304F01	25T67304F01	25T67305F01
F001	Fuse	65T42077U16	65T42077U16	65T42077U16	65T42077U16	65T52486F09
F101a, b	Fuse	65T42077U25	65T42077U25	65T42077U25	65T42077U25	65T57086F07
F102a, b	Fuse	65T42077U25	65T42077U25	65T42077U25	65T42077U25	65T57086F07
L102a, b	Choke Coil	None Use	24T67516F01	None Use	None Use	None Use
L103a, b	Choke Coil	None Use	24T67516F01	None Use	None Use	None Use
C101a, b	Capacitor	08T42081U01	08T42081U13	08T42081U01	08T42081U01	08T42081U01
C102a, b	Capacitor	None Use	08S40805F11	None Use	None Use	None Use
C109a, b	Capacitor	None Use	08T42081U01	None Use	None Use	None Use
C110a, b	Capacitor	None Use	08T42081U01	None Use	None Use	None Use
C111a, b	Capacitor	None Use	08T42081U01	None Use	None Use	None Use
C112a, b	Capacitor	None Use	08T42081U01	None Use	None Use	None Use
C136	Capacitor	None Use	08S44505P61	None Use	None Use	None Use
C137	Capacitor	None Use	08S44505P61	None Use	None Use	None Use
C138	Capacitor	None Use	08S44505P61	None Use	None Use	None Use
C139a, b	Capacitor	None Use	08S40656F13	None Use	None Use	None Use
C140a, b	Capacitor	None Use	08S40656F13	None Use	None Use	None Use
R101a, b	Resistor	None Use	06S44593P53	None Use	None Use	None Use
R160a, b	Resistor	None Use	06S44593P45	None Use	None Use	None Use
R161a, b	Resistor	None Use	06S44503P45	None Use	None Use	None Use
R162a, b	Resistor	None Use	06S44593P45	None Use	None Use	None Use
R163a, b	Resistor	None Use	06S44593P45	None Use	None Use	None Use
L			 	<u> </u>		

Pre Main Amp PCB Parts List

Pre	Main	Amp	PCB	Parts List	
	nbol o.	Stock N	o.	Description	
(Fuse		- 12. j. 14.			
		T4207	71.12.5	Somko T1 44	
F101a				Semko T1,4A 51NM 2.0 -250	(UP)
F101a		T5708		l to the second	(UP)
F102a		T4207		Semko T1.4A	(115)
F102a	· 	T5708	6FU/	51NM 2.0 -250	(UP)
	able Resi	A	agrange and a second	[
RV10		3C4206	1 J 28	470-B	-
(Coil		·			
L101a		1 T6751		Choke 1.1uH	
L102a	7	1 T6751		Choke 1.1uH	(SD)
L103a	ı,b 24	4T6751	6F01	Choke 1.1uH	(SD)
(IC)					
IC101	5 :	l T 5 2 1 5	3F01	NJM2043D-D	
(Trai	nsistor &	FET)			
Q101a	a,b 48	3 T 5 3 4 3	0F01	2SA979-G	
Q102a	a,b 48	3 S 4 3 5 2	5F05	2SC1815-Y, GR	
Q103a		3 S 4 3 5 2	5F05	2SC1815-Y, GR	
Q104a	a,b 48	3 S 4 3 5 2	5F05	2SC1815-Y, GR	
Q105a		3T6075	2F01	2SC2705 O,Y	
Q106a		3S4352	5F02	2SC1815-Y	
Q107a		3T5111		2SA1015-Y	
Q108a		3T6075		2SA1145 O.Y	
Q109a		3T5112		2SC2235-O, Y	
Q110a		BT5111		2SA965-O, Y	
Q114		3T4768		2SC1845 FA	
Q114		3T4700		2SK30A-GR	
-	•	3		2SC1815-Y, GR	
Q115				23C1013-1 , GR	
	de & Zen			1S1553	
D1	- 1	8T5111			
D2	I	BT5111		1S1553	
D3	- 1	3T5111		1S1553	
D4		BT5111		1S1553	
D101	l l	8T5274		HZ18 -3L -AX	
D102	1	3T5274		HZ18 -3L -AX	
D104a		3T5111		1S1553	
D105		BT5111		1S1553	
D106		BT5111	1	1S1553	
D107a		BT5111	1	1S1553	
D108a		3T4095		TLR124 RED	
D109		3 T 5 2 7 4		HZ24 -2L -AX	
D110		BT5111	1	1S1553	
D111		3T4499	- 1	DS135D	
D112a	a,b 48	3T5273	9F87	HZ20 -3	
D113		3T4499		DS135D	
D114		3T4499		DS135D	
D115	1	3T5111		S3V20(4004)	
D116	l l	3T5111	- 1	S3V20(4004)	
D117	1	3T5111		S3V20(4004)	
D118	- 1	3T5111		S3V20(4004)	
	acitor)		J. J. E.		
C101a		3T4208	11101	(Pp) 100pF	
C101a		3T4208		(Pp) 330pF	(SD)
				r tr	(SD)
C102a		354080		(Ce) 2200pF	(2D)
C103a	and the second second	3S4065	1	(EI) 22uF 16V	
C104a		3T4450 3S4065		(EI) 3.3uF 25V	
C105a		< > /I /I /h /h	n r / /	(My) 56000pF	

	Symbol	Stock No.	Description
	No.		
	C106a,b	08S40656F15	(My) 15000pF
	C107	23S41198U42	(EI) 220uF 25V
	C108	23S41198U42	The state of the s
ĺ	C109a,b	08T42081U01	(Pp) 100pF (SD
	C110a,b	08T42081U01	(Pp) 100pF (SD
	C111a,b	08T42081U01	(Pp) 100pF (SD
	C112a,b	08T42081U01	(Pp) 100pF (SD
	C114a,b	23T40656F22	(My) 0.056uF
	C115a,b	08S40656F10	(My) 5600pF
	C116a,b	08S40656F21	(My) 47000pF
	C117a,b	08T42081U01	(Pp) 100pF
	C118a,b	23T44501P08	(EI) 3.3uF 25V
	C119a,b	08S40656F06	(My) 2700pF
	C120a,b	23S41198U37	(EI) 100uF 50V
	C121a,b	08C42195G15	(St) 33pF 125V
1	C122a,b	23S40657F08	(EI) 100uF 10V
	C123a,b	21S40655F06	(Ce) 5pF
	C124a,b	08S40656F05	(My) 2200pF
	C125a,b	08S40656F05	(My) 2200pF
	C126a,b	08S40656F01	(My) 1000pF
	C127a,b	08S40656F21	(My) 47000pF
	C128	08S40656F01	(My) 1000pF
	C129	23S41198U37	(EI) 100uF 50V
	C130	23S40657F26	(EI) 47uF 35V
	C131	23S40657F24	(EI) 22uF 35V
	C132	23S40657F20	(EI) 47uF 25V
	C133a,b	23S40657F26	(EI) 47uF 35V
	C134	23T60749F01	(EI) 4700uF 35V
	C135	23T60749F01	(EI) 4700uF 35V
	C136	08S44505P61	(Ce) 10000pF (SD
	C137	08S44505P61	(Ce) 10000pF (SD
	C138	08S44505P61	(Ce) 10000pF (SD
	C139a,b	08S40656F13	(My) 10000pF (SD
	C140a,b	08S40656F13	(My) 10000pF (SD
	C141	23S40657F10	(EI) 10uF 16V
	C142	23S40657F10	(EI) 10uF 16V
	C143	23S40657F10	(EI) 10uF 16V
	(Resistor)		
	R1	06S40150T97	(Rd) 22KΩ 1/4W
	R2	06S40150T97	(Rd) 22KΩ 1/4W
	R3	06S40150T97	(Rd) 22KΩ 1/4W
	R4	06S40150T97	(Rd) 22KΩ 1/4W
	R101a,b	06S44593P53	(Rd) 330Ω 1/4W
	R102a,b	06S44594P08	(Rd) 56KΩ 1/4W
	R103a,b	06S44594P08	(Rd) 56KΩ 1/4W
	R104a,b	06S44593P81	(Rd) 4.7KΩ 1/4W
	R105a,b	06S44594P38	(Rd) 1MΩ 1/4W
	R106a,b	06S44593P29	(Rd) 33Ω 1/4W
	R107a,b	06S44593P37	(Rd) 68Ω 1/4W
	R108a,b	06S44593P57	(Rd) 470Ω 1/4W
	R109a,b	06S44594P38	(Rd) 1MΩ 1/4W
	R110a,b	06S44594P38	(Rd) 1MΩ 1/4W
	R111a,b	06S44594P38	$(Rd) 1M\Omega 1/4W$
	R112a,b	06S44594P38	(Rd) $1M\Omega$ $1/4W$
	R112a,b	06S44594P38	(Rd) $1M\Omega$ $1/4W$
- 1	R113a,b	06S44594P38	(Rd) $1M\Omega$ 1/4W (Rd) $1M\Omega$ 1/4W
1			
- 1	R115a,b	06S44593P75	(Rd) 2.7KΩ 1/4W

Symbol No.	Stock No.	Description	
R117a,b	06S44593P89	(Rd) 10KΩ 1/4W	
R118a,b	06S44594P36	(Rd) 820KΩ 1/4W	
R119a,b	06S44594P36	(Rd) 820KΩ 1/4W	
R120a,b	06S44593P49	(Rd) 220Ω 1/4W	
R121a,b	06S44593P49	(Rd) 220Ω 1/4W	
R122	06T55175F67	(Rm) 1.2KΩ 1/2W	
R123a,b	06S44594P18	(Rd) 150KΩ 1/4W	
R124a,b	06S44593P49	(Rd) 220Ω 1/4W	
R125a,b	06S44594P08	(Rd) 56KΩ 1/4W	
R126a,b	06S44593P87	(Rd) 8.2KΩ 1/4W	
R127a,b	06S44593P59	(Rd) 560Ω 1/4W	
R128a,b	06S44593P87	(Rd) 8.2KΩ 1/4W	
R129a,b	06S44594P06	(Rd) 47KΩ 1/4W	
R130a,b	06S44593P95	(Rd) 18KΩ 1/4W	
R131a,b	06S44593P95	(Rd) 18KΩ 1/4W	
R132a,b	06T55175F47	(Rm) 180Ω 1/2W	
R133a,b	06T55175F17	(Rm) 10Ω 1/2W	
R134a,b	06T55175F27	(Rm) 27Ω 1/2W	
R135a,b	06S44593P73	(Rd) 2.2KΩ 1/4W	
R136a,b	06S44593P61	(Rd) 680Ω 1/4W	
R137a,b	06S55177F55	(Rm) 390Ω 1W	
R138a,b	06T51107F01	(Rc) 0.22Ωx2 5W	İ
R139a,b	06S44593P53	(Rd) 330Ω 1/4W	
R142a,b	06S44593P53	(Rd) 330Ω 1/4W	
R143a,b	06T55175F17	(Rm) 10Ω 1/2W	
R144a,b	06T55177F17	(Rm) 10Ω 1W	
R145a,b	06T55179F55	(Rm) 390Ω 2W	-
R146	06S44593P85	(Rd) 6.8KΩ 1/4W	
R147	06S44593P33	(Rd) 47Ω 1/4W	1
R148	06S44593P93	(Rd) 15KΩ 1/4W	
R149	06S44594P18	(Rd) 150KΩ 1/4W	
R150	06S44594P08	(Rd) 56KΩ 1/4W	
R151	06S44594P08	(Rd) 56KΩ 1/4W	
R153	06T55179F46	(Rm) 160Ω 2W	
R154	06T55177F69	(Rm) 1.5KΩ 1W	
R155	06T55177F69	(Rm) 1.5KΩ 1W	
R160a,b	06S44593P45	(Rd) 150Ω 1/4W (SD	
R161a,b	06S44593P45	(Rd) $150Ω$ $1/4W$ (SD	- 1
R162a,b	06S44593P45	(Rd) 150Ω 1/4W (SD	
R163a,b	06S44593P45	$(Rd) 150\Omega 1/4W$ (SD	- 1

R163a,b 06S44593P45 (Rd) 150Ω 1/4W **Tone Control PCB Parts List**

Symbol No.	Stock No.	Description
(Capacito)	-)	
C201a,b	23S40657F16	(EI) 4.7uF 25V
C202a,b	08S40656F11	(My) 6800pF
C203a,b	08S40656F20	(My) 39000pF
C204a,b	23S40657F11	(EI) 22uF 16V
C205a,b	21S40655F31	(Ce) 560pF
C206a,b	08S40657F22	(My) 0.056uF
C207a,b	08S44503P30	(My) 0.27uF 50V
(Resistor)	Car a S	
R201a,b	06S44593P71	(Rd) 1.8KΩ 1/4W
R202a,b	06S44593P53	(Rd) 330Ω 1/4W
R203a,b	06S44593P87	(Rd) 8.2KΩ 1/4W
R204a.b	06S44593P69	(Rd) 1.5KΩ 1/4W

Function SW PCB Parts List

Symbol No.	Stock No.	Description
(Capacitor	-)	
C301a,b	23T44501P06	(EI) 2.2uF 35V
C302a,b	23T44501P03	(EI) 0.33uF 50V
(Resistor)		
R301a,b	06S44594P30	(Rd) 470KΩ 1/4W
R302a,b	06S44594P30	(Rd) 470KΩ 1/4W

VR Control PCB Parts List

Symbol No.	Stock No.	Description
(Resistor)	1.7	
R401a,b	06S44593P57	(Rd) 470Ω 1/4W

Remarks

Resistor : Rd Carbon

Rf Frame Proof

Rc Cement Capacitor : El. Electrolytic Ce Ceramic

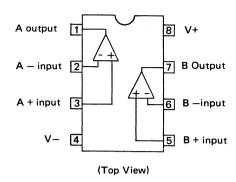
MyMylar

St....Styrol Mi Mica

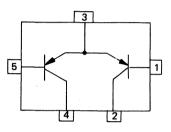
Pp Polypropylene

IC Handling Guide

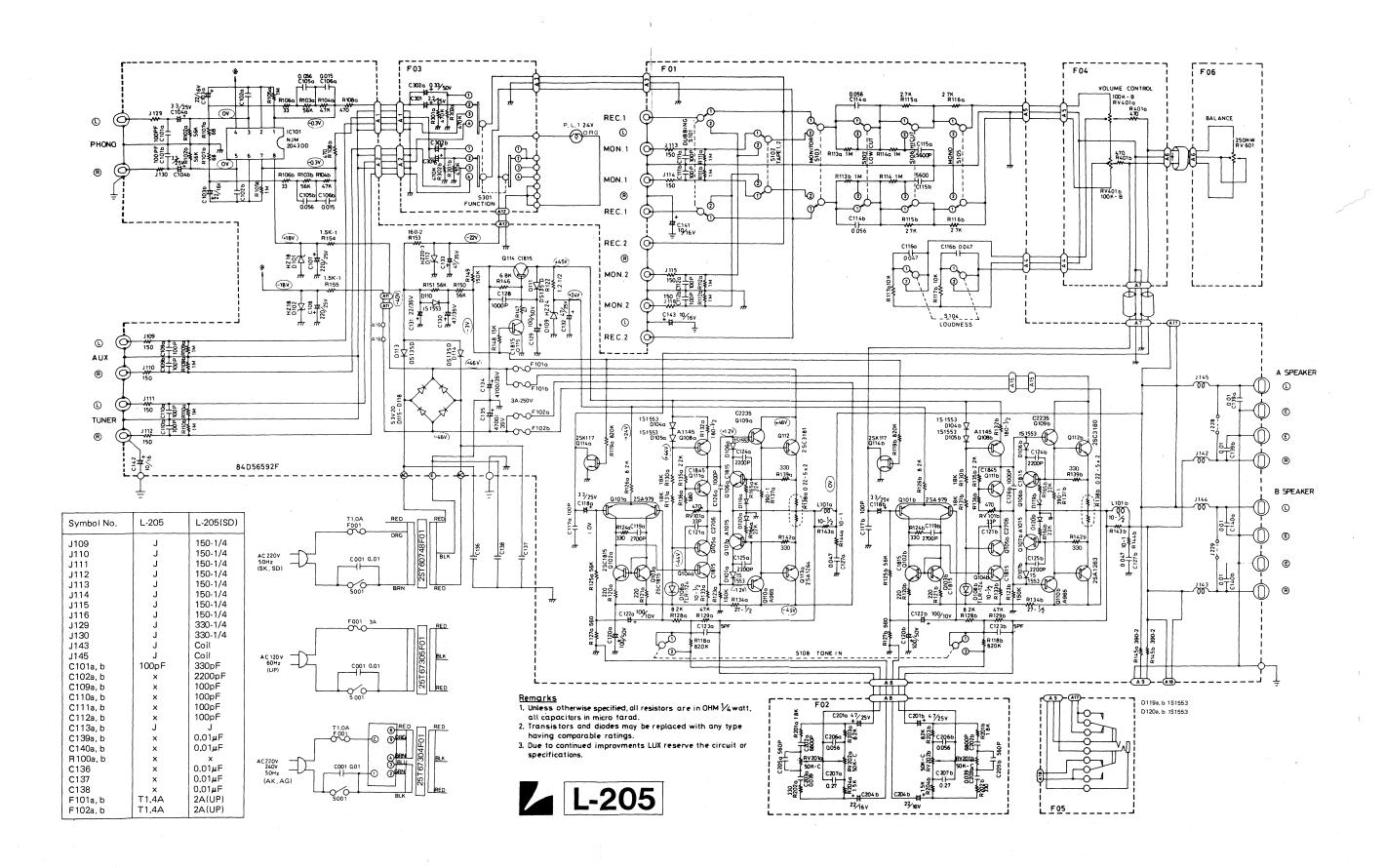
NJM2043D-D IC101 (Stock No. 51T52153F01)



TR, 2SA979G Q101a,b (Stock No. 48T53430F01)



Schematic Diagram



Specifications

Power Output: 8 ohms, 1KHz 40Wx2 Distortion: 0.02% Input Sensitivity/Impedance: Phono MM 1.8mV/50K ohms Tuner, Monitor 160mV/40K ohms CD/Aux 160mV/40K ohms S/N ratio: Phono MM (IHF-A weighted, 5mV, Input short) 90dB Tuner, Monitor (IHF-A weighted) 107dB CD/Aux 107dB Residual Noise: 0.5mV Filter: Low cut 70Hz(-6dB/oct) Phono Subsonic 15Hz(-6dB/oct) Phono MM Overload: 130mV Frequency Response: Phono MM 20Hz~20KHz (±0.5dB) Tuner, Monitor 10Hz~100KHz (+0, -1.5dB) CD/Aux 10Hz~100KHz (+0, -1.5dB) Tone Control: Treble ±8dB at 10KHz Bass ±8dB at 100Hz Loudness (Volume: -3dB) +8dB at 100Hz Dimentions: 453(W)x317(D)x111(H) mm (17.8"x12.5"x4.4") Weight: Net 5.4 Kgs Gross 6.6 Kgs Power Consumption: 120V 2A (CSA rated)

Specifications and appearance design subject to change wihtout notice.